

## AirDefense Model 400 Sensor



The AirDefense Model 400 Smart Sensor silently observes & collects all wireless LAN traffic, analyzes the 802.11 frames, extracts meaningful data points to determine key attributes and transmits to the server. This sensor has two radios (one 802.11a and one 802.11 b/g) and scans both frequency bands (2.4 GHz and 5 GHz) simultaneously.

### **Data Rates** (Auto-rate capable)

- 802.11a : 6, 9, 12, 18, 24, 36, 48, 54Mbps
- 802.11g : 6, 9, 12, 18, 24, 36, 48 & 54Mbps
- 802.11b : 1, 2, 5.5, 11Mbps

### **Media Access Protocol**

- CSMA/CA with ACK

### **Standards**

- IEEE802.11a, IEEE802.11g, IEEE802.11b, IEEE802.1x, IEEE802.3, IEEE802.3u

### **Power Requirements**

- 12 V /1A
- Power-Over-Ethernet: Supports up to 48 V, 200 mA

### **Compliance**

- FCC Part 15/UL, ETSI 300/328/CE

### **Security**

- Serial console can be used to change to factory defaults
- Specific management IP address
- Support PKI authentication

### **Management**

- Remote configuration through Web

### **Bandwidth Control**

- Remote configuration through Web

### **Modulation Technology**

- 802.11a/g : OFDM (64-QAM, 16-QAM, QPSK, BPSK)
- 802.11b : DSSS (DBPK, DQPSK, CCK)

### **Receive Sensitivity & Transmit Output Power**

- See Appendix for detailed statistics

### **Interface**

- 1\* 10/100Mbps RJ-45 Switch Port
- Status LEDs
- POWER, WLAN(5GHz/2.4GHz), 10/100 Base T, LINK

### **Antenna**

- 1.5 dBi stable diversity antenna\*2(2.4G/5G)

### **Dimensions** (HxWxL)

- 35mm x 210mm x 170mm

### **Weight**

- 4.5 lbs (without packaging); 6 lbs (with packaging)

### **Temperature Range**

- 0°C to 55°C (32°F to 131°F) – Operating
- -40°C to 70°C (-40°F to 158°F) – Storage

### **Humidity** (non-condensing)

- 5%~95% Typical



### Appendix

Receive Sensitivity (typical)	<p><b>802.11a</b> : -84dBm @ 6Mbps -77dBm @ 18Mbps          -70dBm @ 48Mbps -82dBm @ 9Mbps -75dBm @ 24Mbps -68dBm @ 54Mbps -79dBm @ 12Mbps -73dBm @ 36Mbps</p> <p><b>802.11b/g</b> : -91dBm @ 1Mbps -84dBm @ 6Mbps -75dBm @ 24Mbps -90dBm @ 2Mbps -82dBm @ 9Mbps -73dBm @ 36Mbps -89dBm @ 5.5Mbps -79dBm @ 12Mbps -70dBm @ 48Mbps -87dBm @ 11Mbps -77dBm @ 18Mbps -68dBm @ 54Mbps</p>
Transmit Output Power (typical) <i>(Important for Termination Only)</i>	<p><b>802.11a</b> : 18dBm+/-2 @6-24Mbps 15dBm+/-2 @54Mbps 17dBm+/-2 @36Mbps 13dBm+/-2 @108Mbps 16dBm+/-2 @48Mbps</p> <p><b>802.11g</b> : 20dBm +/-2dBm @ 6~24Mbps 17dBm +/-2dBm @ 48 Mbps 19dBm +/-2dBm @ 36 Mbps 15dBm +/-2dBm @ 54 Mbps</p> <p><b>802.11b</b> : 20dBm +/-2dBm for all rates</p>